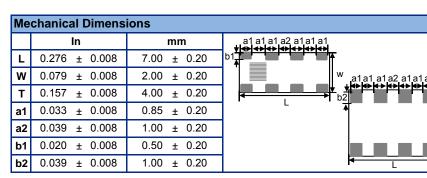
2.5GHz Chip Antenna with No GND clearance required

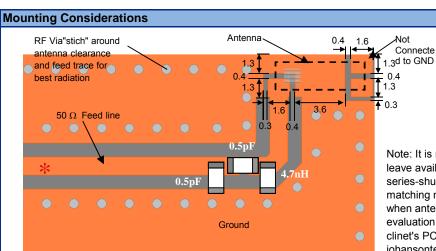
P/N 2500AT43A0100

Detail Specification: 10/28/2013 Page 1 of 5

General Specifications			
Part Number	2500AT43A0100	Input Power	2W max. (CW)
Frequency Range	2450 - 2550	Operating Temperature	-40 to +85°C
Peak Gain	0.6 dBi typ. (YZ-total)	Recommended Storage	+5~+35°C, Humidity
Average Gain	-2.1 dBi typ. (XZ-total)	Conditions	45~75%RH
VSWR	3.0 max.	Reel Quanity	500pcs
Impedance	50 Ω		•







Units in mm

Note: It is recommended that the designer leave available slots for a "pi" (or shunt-series-shunt) network. The antenna matching network values here are used when antenna is mounted on Johanson's evaluation board. The matching values on clinet's PCB will be different, go to: johansontechnology.com/tuning and see how to obtain the new values. If you need further help, contact our RF Applications Eng Team at:

www.johansontechnology.com/en/ask-a-technical-question.html

We perform layout review as well as antenna tuning and characterization services. Go to page 2 for details.

Line width should be designed to match 50Ω characteristic impedance,

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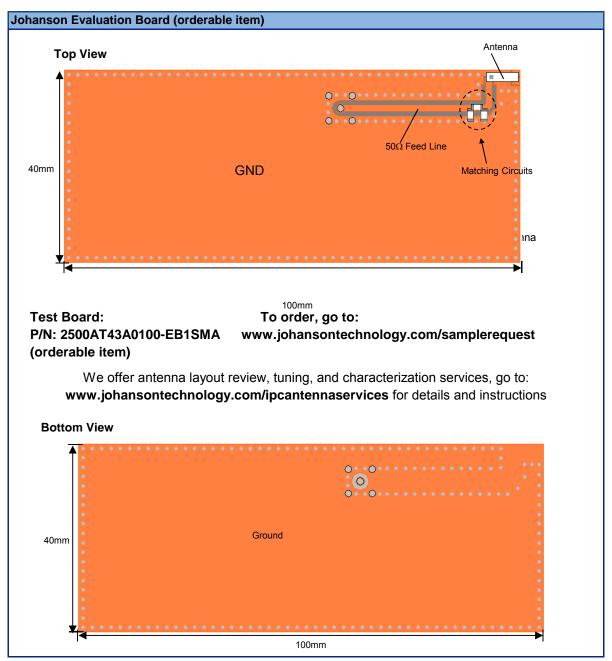


depending on PCB material and thickness

2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

Detail Specification: 10/28/2013 Page 2 of 5



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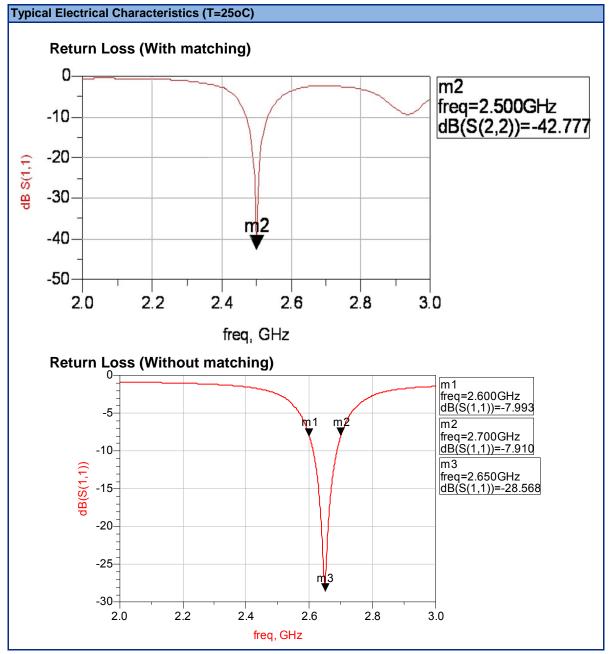
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2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

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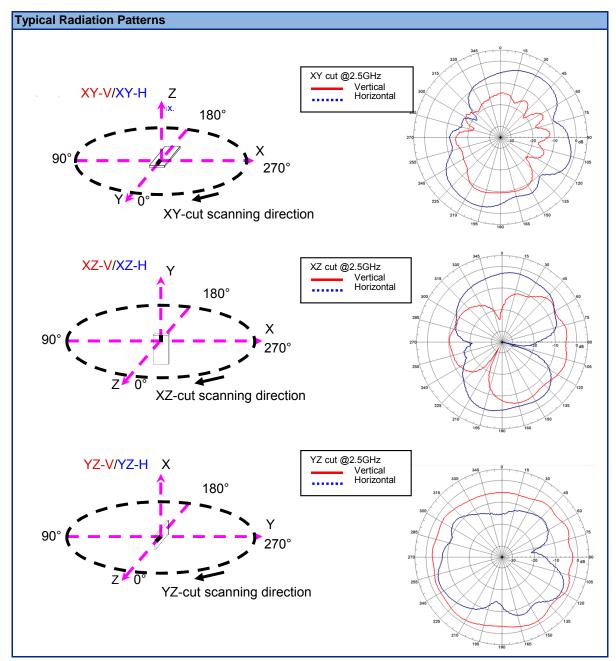
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2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

Detail Specification: 10/28/2013 Page 4 or 5



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2.5GHz Chip Antenna with No GND clearance required

P/N 2500AT43A0100

Detail Specification: 10/28/2013 Page 5 or 5

Part Number E	Part Number Explanation			
	Packing Style	Bulk (loose pieces)	Suffix = S	eg.2500AT43A0100S
		T&R	Suffix = E	eg. 2500AT43A0100E
		T & R (Reverse)	Suffix = R	eg. 2500AT43A0100R (MOQ Applies)
P/N Suffix		100% Tin	Suffix = None	eg. 2500AT43A0100(S, E, R)
P/N Sullix	Eval Board (1-port SMA antenna test boards)	2500AT43A0100-EB1SMA (Page 2)		
	More Details	www.johansontechnology.com/ipc-pn-explained		

Storage Conditions and Shelf Life (On T&R or Bulk)			
Temperature:	+5C to +35°C	Shelf Life:	18 months max.
Relative Humidity:	45 to 75%		

Packaging information	
	www.johansontechnology.com/ipcpackaging.html

Soldering Information	
	www.johansontechnology.com/ipcsoldering-profile

Antenna layout and tuning techniques
www.johansontechnology.com/tuning

Antenna layout review, tuning, and characterization services	
www.johansontechnology.com/ipcantennaservices	

RoHS Compliance	
	www.iohansontechnology.com/technical-notes/rohs-compliance.html

MSL Info		
	www.johansontechnology.com/technical-notes/msl-rating.html	

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